```
OUTPUT:
```

```
1.
```

```
Marks= [30, 50, 40, 60]
Sum= 180
Product= 3600000
Highest mark= 60
Lowest mark= 30
```

2.

```
A= ['abc', 'xyz', 'aba', '1221']
aba at index 2
1221 at index 3
```

3.

0.

* 7

* * *

* * * *

* * * * *

A

AB

ABC

ABCD

ABCDE

```
List: (['Black', 'Red', 'Maroon', 'Yellow'], ['000000', 'FF0000', '800000', 'FFFF00'])

[{'Black': '000000', 'Red': 'FF0000', 'Maroon': '800000', 'Yellow': 'FFFF00'}, {'Black': '000000', 'Red': 'FF0000', 'Maroon': '800000', 'Yellow': 'FFFF00'}]
```

5.

```
1-50
2:4
4:16
6:36
8:64
10:100
12:144
14:196
16:256
18:324
20:400
22:484
24:576
26:676
28: 784
30:900
32:1024
34: 1156
36: 1296
38: 1444
40:1600
42: 1764
44: 1936
46: 2116
48: 2304
```

```
2:4
4 : 16
6 : 36
8 : 64
10 : 100
12 : 144
14: 196
16: 256
18: 324
20:400
22 : 484
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26: 676
28: 784
30:900
32: 1024
34 : 1156
36 : 1296
38 : 1444
40 : 1600
42 : 1764
44 : 1936
46 : 2116
48 : 2304
50 : 2500
52 : 2704
54 : 2916
56 : 3136
58: 3364
60 : 3600
62: 3844
64 : 4096
66: 4356
68: 4624
70: 4900
72 : 5184
74 : 5476
76 : 5776
78: 6084
80 : 6400
82 : 6724
84 : 7056
86 : 7396
88 : 7744
90: 8100
92: 8464
94: 8836
96 : 9216
98 : 9604
```

6.

Enter a four digit number: 4502

Sum of digits: 11

Reverse of the number: 2054

Area of triangle with sides 20, 30, 40 = 290.4737509655563
Enter sides of triangle:
Side a: 45
Side b: 50
Side c: 40
Sides of triangle 1 = 45.0 50.0 40.0
Enter sides of triangle:

Side a: 30 Side b: 29

Side c: 36

Sides of triangle 2 = 30.0 29.0 36.0

Area of triangle 1 = 854.9259836383499 Area of triangle 2 = 420.53351531120563

Total area of the 2 triangles = 1275.4594989495554 Contribution of triangle 1 = 67.02886170375861 %

Contribution of triangle 2 = 32.971138296241406 %

8.

Name: John Doe Age: 30

Blood Group: A+

Name: Jane Smith

Age: 25

Blood Group: B-----Name: Emily Davis

Age: 40

Blood Group: O+

Name: William Johnson

Age: 35

Blood Group: AB-

Name: Michael Brown

Age: 28

Blood Group: A-

Name: Emma Wilson

Age: 22

Blood Group: B+

```
Name: Oliver Martinez
Age: 33
Blood Group: O-
Name: Sophie Anderson
Age: 37
Blood Group: AB+
Name: James Thomas
Age: 45
Blood Group: A+
Name: Isabelle Lee
Age: 38
Blood Group: B-
9.
The tuple= ('python', 'learn', 'includehelp')
Output list: ['n', 'n', 'p']
10.
Enter the month name January
The number of days in January is 31
====== RESTART: C:\Users\athir\PYTHON_LAB
Enter the month name February
Enter year2024
The number of days in February is 29
====== RESTART: C:\Users\athir\PYTHON_LAB
Enter the month name September
The number of days in September is 30
```